AA40C

40 WATTS

AA40C Series

Total Power	*40 Watts*
Input Voltages	*48V*
# of Outputs	*Single and Dual*

SPECIAL FEATURES

- High Efficiency - 78% Typical
- Fixed frequency switching
- Low output ripple and noise
- Wide input voltage range
- TTL compatible enable control
- Adjustable output voltage
- Short circuit protection
- Low profile PCB mounting
- 350 KHz fixed switching frequency

ENVIRONMENTAL

Operating Temperature (case):-40°C to +85°C

Storage Temperature: -40°C to +105°C

Cooling Method: Convection/Heat sink option

MTBF: > 1 million hours (25°C ambient)

SAFETY

(AA40C- 048L- 050S), SELV Input

UL	UL 1950	E18220611-1
CSA	CSA 22.2-9.50	LR53982C

ELECTRICAL SPECIFICATIONS

Input

Input Range ..... 36 to 75 VDC

Efficiency ..... 78% typical

Control

Voltage Adjust ..... 90 to 110% Vo

Enable ..... TTL compatible (high or open to enable)

Isolation

Input to Output ..... 1500 VDC

Output

Voltage Set Point Accuracy ... ±1%

Line Regulation ..... 0.2% (output 1)

Load Regulation ..... 0.6% (output 1)

Noise/Ripple ..... 100 mV typical (output 1);
120 mV typical (output 2)

Output Voltage
Adjust Range ..... ±10% of nominal

Transient Response ..... 5% typical deviation with 400µs recovery
(25-75% full load)

Short Circuit Protection ..... Continuous, Auto-restart

NOTES

Maximum capacitive load, 150µF.

12% Minimum load on dual output only.

All specifications are typical at nominal input, full load, 25°C ambient unless otherwise noted.

Specifications subject to change without notice.

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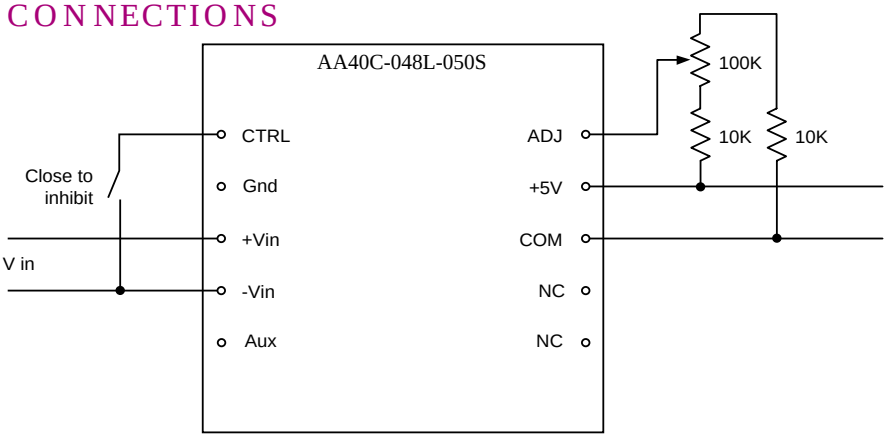
ORDERING INFORMATION

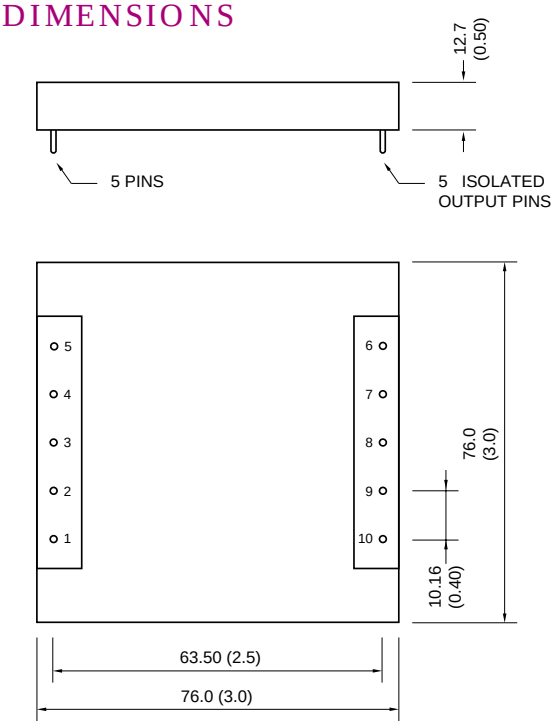
Input Voltage	Output 1 Voltage	Output 2 Voltage	Maximum Power	Model Number
36-75V	5.1V @ 8A	--	40W	AA40C-048L-050S
36-75V	5.1V @ 4A	-5.1V @ 4A	40W	AA40C-048L-050D

Please contact Astec for information on other output voltages, power ranges and configurations.

CONNECTIONS



DIMENSIONS



Viewed from pins side. Dimensions in mm (inches)

PIN ASSIGNMENTS

36-75V Input Single Output

1. CTRL (Enable)
2. Case
3. +Vin
4. -Vin
5. Aux
6. NC (Reserved)
7. NC (Reserved)
8. COM (O/P Common)
9. +5.1V Output
10. ADJ (O/P V Adjust)

36-75V Input Dual Output

1. CTRL (Enable)
2. Case
3. +Vin
4. -Vin
5. Aux
6. -5.1V Output
7. NC (Reserved)
8. COM (O/P Common)
9. +5.1V Output
10. ADJ (O/P V Adjust)